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VERNOIS GOULVEN

JUL 17 2006

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1 **US 08/809,620 (TE20060717a)**
Goulven VERNOIS - Reply to Action 02/16/06

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Arradon on July 16, 2006

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Commissioner of Patent
Mr. Thong Q. Nguyen
Art Unit 2872
Via fax 571-273-8300

APPLICATION 08/809,620

**OPTICAL DEVICE - Reply to the Office Action Summary mailed on
February 16, 2006**

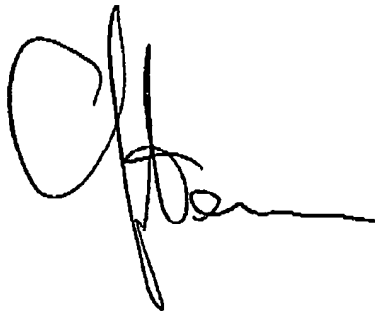
Mr. Thong Q. Nguyen Examiner - Art Unit 2872

Dear Sir,

I think with you that a substitute specification under 37 CFR 1.121 (b)(3) is very appropriate to achieve the application concerning the optical device..

I reply strictly with regard to optical device constituted by a membranous mirror, its actuating membrane, and the electromagnetic field binded to axis of the telescope and allowing the rough chaping of the actuating membrane.

The folding of the mirror and of the actuating membrane, absolutely essential to put in orbit this optical device as soon as it is large, is inseparable of this optical device, and inserted in spécification and claims.



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1 **US 08/809,620 (TE20060717a)**
Goulven VERNOIS - Reply to Action 02/16/06

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23 **US 08/809,620 (TE20060717a)**
Goulven VERNOIS - Reply to Action 02/16/06

To Mr. Thong Q. Nguyen

Art Unit 2872

July 17, 2006

Via fax 571 273 8300

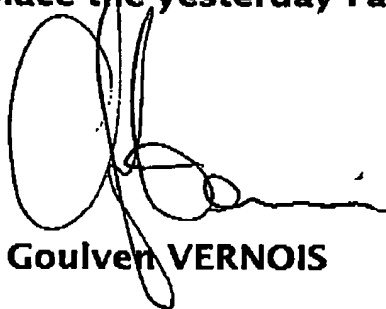
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JUL 17 2006

US 08/809,620

- I - Reply to Action of 02/16/06**
- II - Claims listing**
- III - No new matter**

To replace the yesterday Fax



Goulven VERNOIS

Fax 33 02 97 61 11 27

17/07/06-18:28

23 **US 08/809,620 (TE20060717a)**
Goulven VERNOIS - Reply to Action 02/16/06

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2 **US 08/809,620 (TE20060717a)**
Goulven VERNOIS - Reply to Action 02/16/06

OPTICAL DEVICE

- I - New abstract
- II Substitute specification under 37 CFR 1.121 (b)(3)
 - a) Instruction
 - b) Statement
- III - Amended claims under 1.121
- IV - Amended drawings under 1.121 (d)
- V - Claims listing
- VI - Working document for sbstitute specification showing no new matter

On the detailed action mailed March 16, 1999, the Examiner determines the **Groups I, II, II, IV.**

Unfortunately, the description of the optical device comprising membranous mirror, its separate actuating membrane, and magnetic field tied to telescope, was scattered in several of the **Groups I, II, III, IV.**

To simplify, I take in account a **Group A** strictly with regard to :

a) the optical device constituted by the membranous mirror and its actuating membrane, allowing a micro control of the shape of the mirror,

b) the magnetic field tied to the telescope and allowing the macro control of the shape of the actuating membrane, the existence of these two control levels being an essential and fondamental difference with former art (Andrea Theodoro Augoustini, GB 2 247 323 A)

c) the folding of the mirror and of the actuating membrane.

I do not take in account the manufacturing of these membranes

As peripheral or central ruffles are not essential, they are canceled.

To make the drawings in appropriateness with the new description, this drawings are cleaned of all parasitic elements, but, on the other hand, coll 72 of the former PCT Fig 1, producing magnetic field tied to telescope will be put in new Fig 1, with dipole 142 of former PCT Fig 43 having the same function.

On this manner, the new Figure 1 is very expressive of the claimed invention.

The new specification that I am invited to write under 37 CFR 1.121 (b)(3) and 1.125 (a), (b), (c), is only in relation with this Group A.

For more explanations about folding of the membranes, the Applicant respectfully invites the Examiner to read the **US Patent 6,676,262 B1.**

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2 **US 08/809,620 (TE20060717a)**
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